

Title (en)  
Breathing tube apparatus

Title (de)  
Atemrohrvorrichtung

Title (fr)  
Dispositif de tube respiratoire

Publication  
**EP 1092448 A2 20010418 (EN)**

Application  
**EP 00308906 A 20001010**

Priority  
US 41810599 A 19991014

Abstract (en)  
An apparatus and method employing a syringe (20) mounted splittable needle (10) insertable through body tissue to provide a percutaneous passage through the body tissue and into a cavity such as a trachea. After insertion of the needle (10), the syringe (20) is separated from the needle (10) and a dilator (22) is fitted in its place. The distal extremity of the dilator (22) includes a leader (24) which extends through the needle (10) and into the trachea. The midportion of the dilator (22) supports the distal extremity of a flexible, ultra thin trachea tube (30). The tube (30) is large enough in diameter that it can be fitted over the distal end of the dilator (22) and moved in a proximal direction toward the dilator (22) midportion. Further movement onto the dilator (22) is prevented by engagement of a smaller diameter distal extremity of the tube (30) with a larger diameter stop section located on the dilator (22) midportion adjacent its distal extremity. The needle (10) is split to allow separation of the needle (10) from the dilator (22) and tube (30), followed by thrusting of the dilator (22) and tube (30) farther into the trachea. The dilator (22) is then withdrawn to leave the tube (30) in position within the trachea for ventilation of the trachea upper airway. An annular inflatable cuff (26) is affixed to the trachea tube (30) for occluding the space between the trachea tube (30) and the inner tracheal wall, and for providing additional stiffness at the distal end of the trachea tube (30). <IMAGE>

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CPC (source: EP US)  
**A61M 16/0472** (2013.01 - EP US); **A61M 16/0488** (2013.01 - EP US)

Citation (applicant)  
• US 3511243 A 19700512 - TOY FREDERIC J  
• US 4364391 A 19821221 - TOYE FREDERIC J  
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